

Grant Ranch Stormwater Monitoring

The Grant Ranch stormwater treatment system was one of the earliest examples in the United States of a system that had to meet numeric limits with stormwater discharges. In the mid-1990s, the proposed Grant Ranch residential development in Littleton, Colorado, raised concerns with the residents of Bow Mar over potential adverse impacts to Bow Mar Lake. WWE was retained by Bowles Metropolitan District to address residents' concerns, such as increased sediment loading, accelerated eutrophication, increased bacterial concentrations and aesthetic impairment. The developer, Bowles Metropolitan District, representatives of the Bow Mar neighborhood, and technical consultants and attorneys from both sides negotiated a comprehensive stormwater agreement.

WWE assisted in planning, providing design criteria for the structural BMPs and trouble-shooting as part of developing a highly effective stormwater quality monitoring and management program. WWE collected performance data for 12 years, utilizing five fully automated monitoring stations and monitoring both dry- and wet-weather events. Lab data were compared against numeric discharge limits agreed to by all parties and, over the course of monitoring, the stormwater treatment system proved to be very effective. The Urban Drainage and Flood Control District continues to collect data from Orchard Pond at Grant Ranch.



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